

**In the Claims:**

1. (Currently Amended) An simulated steering feel system comprising:  
an input device positioned within an automobile;  
a servo disk motor in communication with said input device;  
a vehicle dynamics element; and  
a steering feel control processor in communication with said servo disk motor and  
said vehicle dynamics element, said a steering feel control processor generating a feedback  
torque based on information from said vehicle dynamics element, said servo disk motor capable  
of imparting said feedback torque onto to an said input device;  
  
wherein said input device is part of a steer by wire system, said input device  
having no mechanical steering connection.
2. (cancelled) A simulated steering feel system as described in claim 1  
further comprising a steering feel control processor.
3. (Currently Amended) A simulated steering feel system as described in  
claim 1 ~~further comprising~~ wherein said vehicle dynamics element comprises at least one  
vehicle dynamic sensor.
4. (Currently Amended) A simulated steering feel system as described in  
claim 1 further comprising:  
  
a torque multiplier positioned between said input device and said servo disk  
motor, said torque multiplier utilized to magnifying said feedback torque generated by said servo  
disk motor before imparting onto said input device.
5. (Original) A simulated steering feel system as described in claim 4  
wherein said torque multiplier is a gear reducer.

6. (Original) A simulated steering feel system as described in claim 1 wherein said input device is a steering wheel.

7. (Currently Amended) A simulated steering feel system as described in claim 1 further comprising:

a steering wheel sensor element in communication with said input device, said steering wheel sensor element communicating movement of said input device to said steering feel control processor.

8. (cancelled) A simulated steering feel system as described in claim 1 for use in a driving simulator.

9. (Cancelled) A simulated steering feel system as described in claim 1 for use in an entertainment device.

10. (Cancelled).

11. (Currently Amended) A simulated steering feel system as described in claim 1 further comprising:

a motor driver element positioned between said steering feel control processor and said servo disk motor, said motor driver element utilized to operate said servo disk motor.

12. (Currently Amended) A simulated steering feel system comprising:  
a steering wheel positioned within an automobile, said steering wheel part of a steer by wire system, said steering wheel having no mechanical steering connection;

a servo disk motor in communication with said steering wheel; and

a vehicle dynamics element; and

a steering feel control processor in communication with said servo disk motor and said vehicle dynamics element, said a steering feel control processor generating a feedback

torque based on information from said vehicle dynamics element, said servo disk motor imparting said feedback torque onto said steering wheel;

a torque multiplier positioned between said steering wheel and said servo disk motor, said torque multiplier ~~used in conjunction with~~ to relay said feedback torque from said servo disk motor to said steering wheel to impart road feel ~~to a steering wheel~~;

wherein said steering wheel is part of a steer by wire system, said steering wheel having no mechanical steering connection.

13. (Original) A simulated steering feel system as described in claim 12 wherein said torque multiplier is a gear reducer.

14. (cancelled) A simulated steering feel system as described in claim 12 further comprising:

a steering feel control processor.

15. (Currently Amended) A simulated steering feel system as described in claim 12 ~~further comprising~~ wherein said vehicle dynamics element comprises at least one vehicle dynamic sensor.

16. (Currently Amended) A simulated steering feel system as described in claim 12 further comprising:

a steering wheel sensor element in communication with said steering wheel, said steering wheel sensor element communicating movement of said steering wheel to said steering feel control processor.

17. (Currently Amended) A simulated steering feel system as described in claim 12 further comprising:

a motor driver element positioned in between said steering feel control processor and said servo disk motor, said motor driver element utilized to operate said servo disk motor.

18. (cancelled) A simulated steering feel system as described in claim 12 for use in a driving simulator.

19. (cancelled) A simulated steering feel system as described in claim 12 for use in an entertainment device.

20. (Cancelled).

21. (Currently Amended) A method of creating simulated steering feel comprising:  
monitoring vehicle dynamic sensors positioned within an automobile;  
utilizing a steering feel control processor to develop a feedback torque based on said vehicle dynamic sensors;  
communicating said feedback torque from said steering feel control processor to a servo disk motor;  
~~determining an appropriate feedback torque;~~ and  
transmitting said feedback torque ~~towards the~~ onto a steering wheel using ~~a said~~ servo disk motor.

22. (cancelled) A method of creating simulated steering feel as described in claim 21 wherein determining appropriate feedback torque comprises the steps of measuring vehicle dynamics characteristics; and

imputing an appropriate feedback torque using said vehicle dynamic characteristics.

23. (Currently Amended) A method of simulating steering feel as described in claim 21 further comprising the step of increasing the output of said servo disk motor using a gear reducer, said gear reducer positioned between said servo disk motor and said steering wheel.